

Anderson County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors

6/25/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 22 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Anderson County economy.¹

These 22 sectors have a total direct output of approximately **\$119.5 million** and support **729 jobs** in Anderson County. Running the model for all 22 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Anderson County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	729.1	18.13%	\$53,129,200	21.54%	\$119,521,465
Indirect Effect	80.8	2.01%	\$7,188,715	2.91%	\$13,835,101
Induced Effect	119.8	2.98%	\$7,404,240	3.00%	\$14,543,548
Total Effect	929.7	23.12%	\$67,722,155	27.45%	\$147,900,114

As shown in the above table, agriculture, food, and food processing sectors support **930 jobs**, or **23.12%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 22 agriculture, food, and food processing sectors is approximately **\$67.7 million**, or **27.45% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **358 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Anderson County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	358.4	\$37,119,935
Animal production, except cattle and poultry and eggs	165.9	\$19,151,558
Grain farming	47.0	\$15,546,566
Support activities for agriculture and forestry	36.9	\$2,107,436
All other crop farming	32.1	\$2,275,869
Oilseed farming	29.3	\$28,082,221
Wholesale trade	17.3	\$3,751,433
Poultry processing	17.2	\$4,832,739
Hospitals	16.9	\$2,419,515
Truck transportation	16.1	\$2,367,796

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$37.1 million** to the Anderson County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	358.4	\$37,119,935
Oilseed farming	29.3	\$28,082,221
Animal production, except cattle and poultry and eggs	165.9	\$19,151,558
Grain farming	47.0	\$15,546,566
Poultry processing	17.2	\$4,832,739
Wholesale trade	17.3	\$3,751,433
Owner-occupied dwellings	0.0	\$2,899,382
Dairy cattle and milk production	5.2	\$2,759,745
Hospitals	16.9	\$2,419,515
Truck transportation	16.1	\$2,367,796

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Anderson County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	29.3	\$28,082,220.93
Grain farming	47.0	\$15,546,565.97
Vegetable and melon farming	1.3	\$360,037.09
Fruit farming	0.5	\$57,424.07
Tree nut farming	0.0	\$48.67
Greenhouse, nursery, and floriculture production	3.2	\$675,122.26
All other crop farming	32.1	\$2,275,868.88
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	358.4	\$37,119,934.92
Dairy cattle and milk production	5.2	\$2,759,744.70
Poultry and egg production	1.6	\$1,548,581.87
Animal production, except cattle and poultry and eggs	165.9	\$19,151,558.35
Commercial logging	2.2	\$58,102.16
Commercial hunting and trapping	2.1	\$41,656.14
Support activities for agriculture and forestry	36.9	\$2,107,436.41
Poultry processing	17.2	\$4,832,739.16
Bread and bakery product, except frozen, manufacturing	3.2	\$364,104.20
Frozen cakes and other pastries manufacturing	0.2	\$28,784.18
Other leather and allied product manufacturing	2.5	\$232,688.79
Sawmills	2.8	\$1,579,294.13
Farm machinery and equipment manufacturing	3.2	\$1,530,474.31
Veterinary services	10.9	\$1,044,759.63
Landscape and horticultural services	3.4	\$124,318.29

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Anderson County, the retail sector was omitted.